

# **TRIANGULAR-SHAPED PLANAR OPTICAL WAVEGUIDE HAVING**

## **REDUCED SCATTERING LOSS**

### **ABSTRACT OF THE DISCLOSURE**

5           A method for forming an optical waveguide is disclosed. The method  
comprises first forming a lower cladding layer having at least one waveguide  
support. Next, a core material is formed onto the waveguide support using a high  
density plasma chemical vapor deposition (HDPCVD) process. Finally, an upper  
cladding layer is formed over the core material, such that the upper cladding layer  
10   and the lower cladding layer surround the core material.